$\textbf{ANT1} \underline{\textbf{m}} \quad \textbf{ATG} \underline{\textbf{GGT}} \underline{\textbf{GATCACGCT}} \underline{\textbf{TGGAGCTTCCTA}} \underline{\textbf{AAGGACTTCCTGGCCGGGGCGGT}} \underline{\textbf{GCGGT}} \underline{\textbf{GCGGGT}} \underline{\textbf{GCGGT}} \underline{\textbf{GCGGT}} \underline{\textbf{GCGGGT}} \underline{\textbf{GCGGT}} \underline{\textbf{GCGGGT}} \underline{\textbf{GCGGGGT}} \underline{\textbf{GCGGGT}} \underline{\textbf{GCGGGT}} \underline{\textbf{GCGGGGT}} \underline{\textbf{GCGGGT}} \underline{\textbf{GCGGGGT}} \underline{\textbf{GCGGGGT}} \underline{\textbf{GCGGGGT}} \underline{\textbf{GCGGGGT}} \underline{\textbf{GCGGGGT}} \underline{\textbf{GCGGGT}} \underline{\textbf{GCGGGGT}} \underline{\textbf{GCGGGT}} \underline{\textbf{GCGGGGT}} \underline{\textbf{GCGGGT}} \underline{\textbf{GCGGGT}$ ANT2m ATGACAGATGCCGCTGTGTCCCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGCAGCCATCTCCAAGACGGCGGTAGC 80 ANT3m ATGACGGAACAGGCCATGTCCTTCGCCAAAGACTTCTTTGGCCGGAGGCATCGCCGCCGCCATCTCCAAGACGGCCGTTGGC CCCATCGAGAGGGTCAAACTGCTGCTGCAGGTCCAGCATGCCAGCAAACAGATCAGTGCTGAGAAGCAGTACAAAGGGA 160 160 160 240 ANT1m TCATTTGATTTGTGTGGTGAQAATCCQTAAGGAGCAGGGQTTTCCTTCTGGAGGGGTAACCTGGCCAACGTGATCCQT TITIATIAGACTGCGTGGTCCGTATITICCCAAGGAGCAGGAAACTITICTGTCCTTCTGGCGGGGGTAACCTGGCCAATIGTCATCAGGA 240 TOGITEGACTGCATITIGTCCCCCAACGAGCAGCAGGCCGTCCTTCTTCTGGAGGGGGCAACCTTTGCCAACGTCATTTCGC 240 ANT1m TACTTCCCCACCCAAGCTCTCAACTTCGCCTTCAAGGAGAAGTACAAGCAGGTCTTCIITAGGGGGGTGTGGATCGGCATAA 320 ANT2m TACTTCCCCACCCAGGCTCTffAACTTCGCCTTCAAAGATAAATTACAAGCAGATCTTCCTGGGTGGTGTGGACAAGAGAAAC 320 ANT3m TACTTCCCCACTTCAAGCOCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTTCCTGGGGGGGCCGTGGACAAGCACAC 320 ANT1m GCAGTTCTGGCGCTACTTTGQTGGTAACCTGGQGTCCGGTGGGGCCGQTTGGGGCCCACCTCCCTTTTGTTQTACCCGC 400 ANT2m [CCAGTT[]]TGGC[]CTACTTTGCAGGGAAT[]CTGGCATC[GGGTGCCGCAGGGGCCACATCCCT[GTG]]TTTGTGTACCC[]C 400 TGGAQTTTGQTJAQQACQAQGTJTGGQTJGCTGATGTGGQQQAGQQC--_GCGQCQAGCQTJGAGTTCQATJGQTJCTGGGQQGACTQTJ 477 480

Fig. 1A

ANT1m @TCATOPAAGATCTTTCAAGTCTGATGGCQTQAGGGGGCTQTACCAGGGQTTTCAACGTCTCTGTQCAAGGCATCATTTATCTA 557 ANT2m CTGQTTAAGATCTACAAATCTGATGQGATTAAGGGCCTGTACCAAGGCTTTTAACGTQTCTGTGCAGGQTTATTTATCATCTA ANT3m CTGGTGAAGATOACCAAGTOCGACGGCATCCGGGGCCTGTACCAGGGCTTCAGTGTCTCCGGGGCATCATCATCTA 560 ANT1m [TAGAGQTIGCCTACTTCGGAGTCTATGATACTGCCAAGGGGATGCTGCQTIGACCCCAAGAAQGTIGCACAT[T]]T[TGTGAGCT 637 640 ANT3m CCGGGCGCCTACTTCGGCGTGTACGATACGGCCAAGGGCATGCTCCCCGAGCCCCAAGAACACGCACATCGTGGTGAGCT 640 717 ANT2m GGATGATCGCACAGACTGTTCACTTGCTGTTTGCCGGCTTTGACTTTCCCTATTCCACTGTTCGCCGCCCCCCATGATGATG 720 ANT3m GGATGATCGCGCAGACCGCTGACGGCCGTCGCTGGTGGTGCCCCCTTCGGACACGGTGCCGCCGCCATGATGATG 720 ANT1m CAGTCCGGQCGGAAAAGGQCGCGATATTTATGTACACGGGQAAQAGTTGACTGCTGGAGGAAGATTGQAAAAGAQCGAAGACQC 800 ANT3m CAGTCCGGGCGCAAAGGAGCTGACATCATGTACACGGGCACCGTCGACAGAGAGATCTTCAGAGAGATGAGGGGGGG 800 ANT1m CAAGGCCTTCTTCAAAGGTGCQTGGTCCAATGTQCTGAGAGGCATGGQCCGGTGCTTTTGTATTGGTQTTGTATGATGAGA ANT2m CAAAGCOTTOTTCAAGGGTGCATGGTCCAATGTTCTQAGAGGCATGGGTGGTGCTTTTGTGCTTGTGTTGTATGATGAAAA 880 ANT1m TCAAAAATATGTCTAA 894 ANT2m TCAAGAAGTACACATAA 897 ANT3m TCAAGAAGGTGATCTAA 897

Fig. 1B

Title: PRODUCTION OF ADENING AUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGARISM AND SCREENING ASSAYS THEREFOR

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HANT1p MGDFIANGFILKDFLAGAVAAAVSKTAVAPIERVKLLLQVQHASKQIBAEKQ 50 HANT2P MTDANVSFAKDFLAGGVAAAISKTAVAPIERVKLLLQVQHASKQITADKQ HANT3D MTEONISFAKDFLAGGTAAAISKTAVAPIERVKLLLQVOHASKQIAADKQ HANTID YKGIIDCVVRIPKEQGFLSFWRGNLANVIRYFPTQALNFAFKDKYKQLFL 100 HANT2D YKGIIDCVVRIPKEQEVLSFWRGNLANVIRYFPTQALNFAFKDKYKQIFL 100 HANT3p YKGIMDQTIVRIPKEQGVLSFWRGNLANVIRYFPTQALNFAFKDKYKQIFL 100 HANT1p GGVDRHKDFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVQRR-A 149 HANT2p GGVDKRTQFWLYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKAGA 150 HANT3D GGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKSGTI 150 HANT1p | QREFFIGLGDQTIKIFKSDQLRGLYQGFNVSVQGIIIYRAAYFGVYDTAKG 199 HANT2D EREFRGLGDCLWKIMKSDGIRGLYQGFNVSVQGIIIYRAAYFQTIYDTAKG 200 HANT3D EREFRGLGDCLWKITKSDGIRGLYOGFSVSVOGIIIYRAAYFGVYDTAKG 200 HANT1p MLPDPKNVHIFIVSWMIAQSVTAVAGLILSYPFDTVRRRMMQSGRKGADIM 249 HANT2D MLPDPKNTHIVIISWMIAQTVTAVAGLITSYPFDTVRRRMMMQSGRKQIIDIM 250 HANT3D MLPDPKNTHIVVSWMIAQTVTAVAQVVSYPFDTVRRRMMQSGRKGADIM 250 HANT1p YTGTVDCWRKIAKDEGAKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYN. 298 HANT2D YTGTDDCWRKIARDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYT. 299 HANT3p YTGTVDCWRKIERDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEDKKVI. 299

Fig. 2

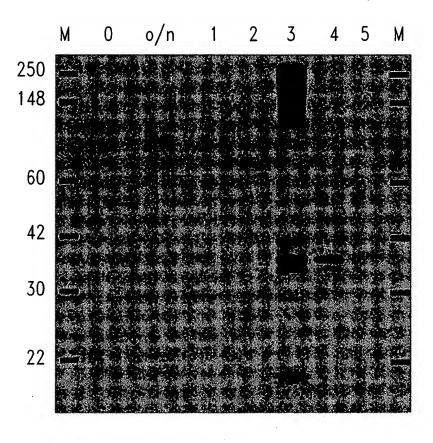


Fig. 3

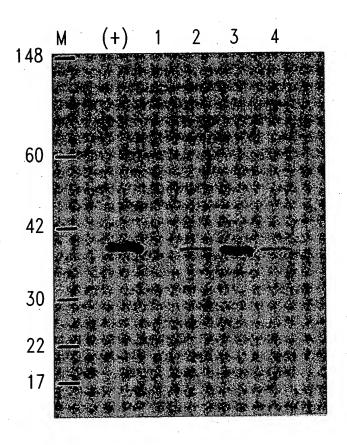


Fig. 4

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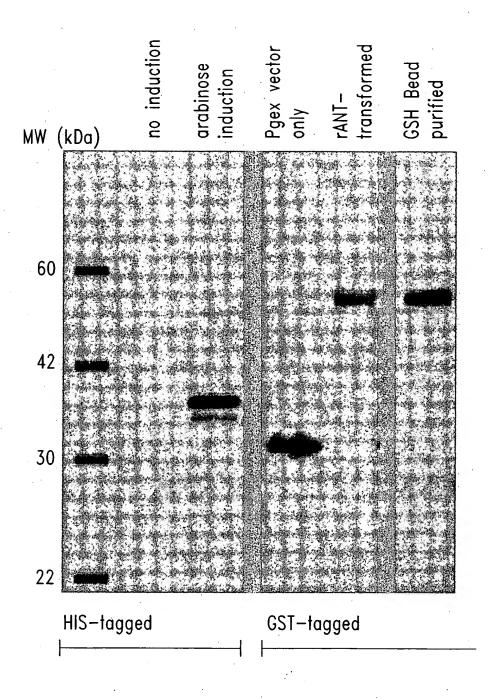


Fig. 5

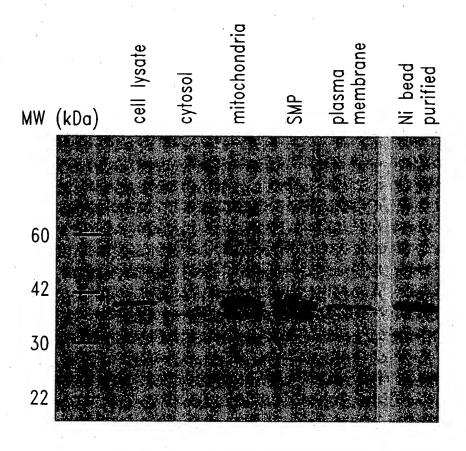


Fig. 6

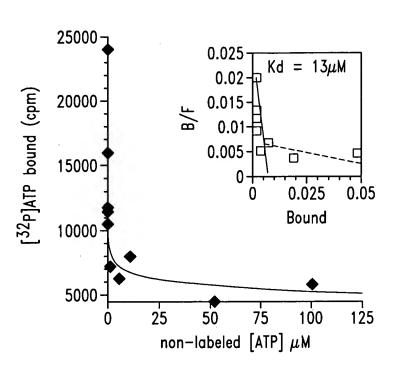


Fig. 7

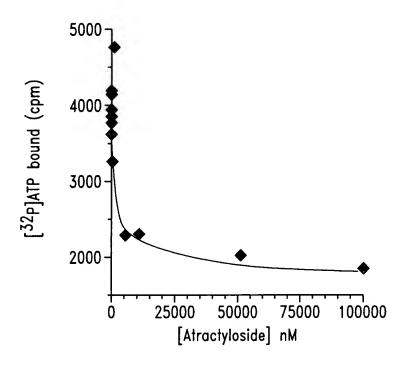


Fig. 8

Inventors: Christen M. Anderson et al.

Fig. 9

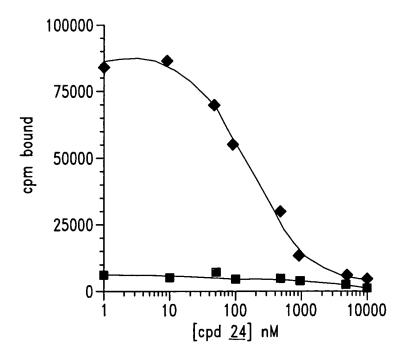


Fig. 11

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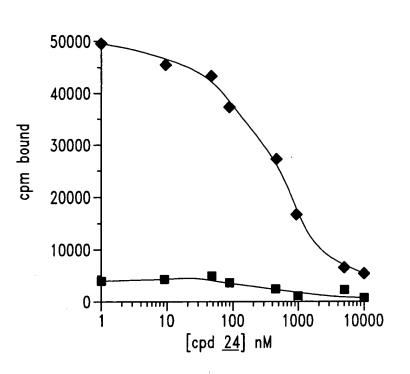


Fig. 12

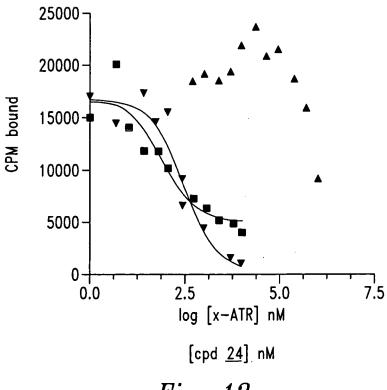
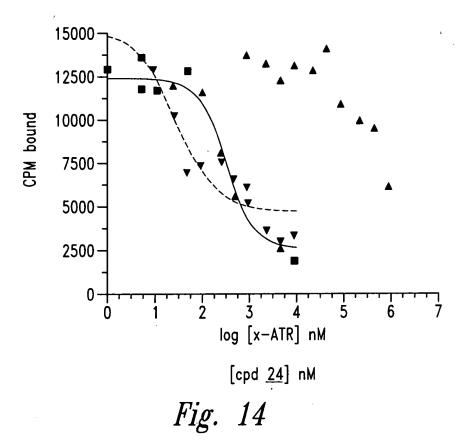


Fig. 13



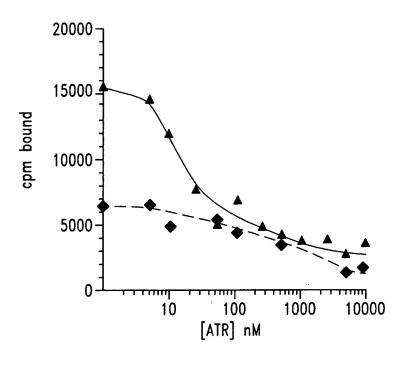


Fig. 15

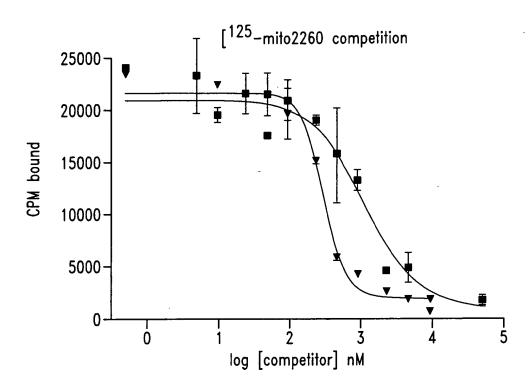


Fig. 16

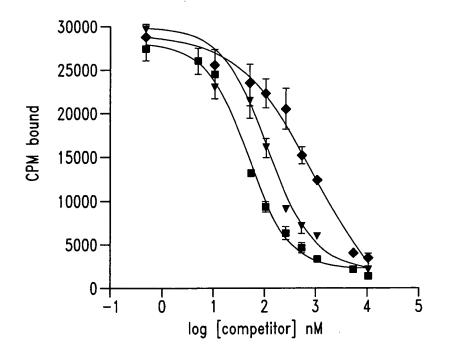


Fig. 17

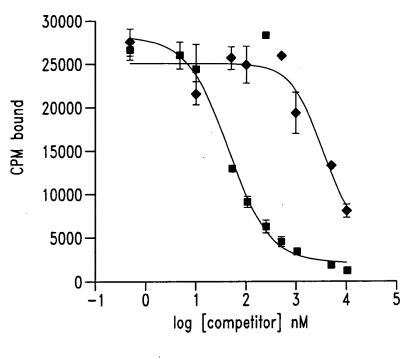


Fig. 18

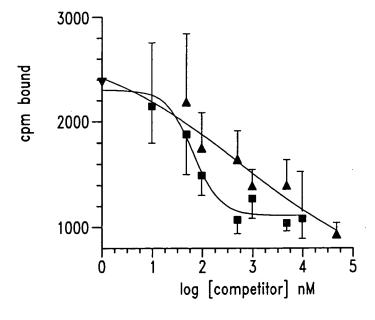


Fig. 19